(19) World Intellectual Property Organization International Bureau



(43) International Publication Date 6 January 2005 (06.01.2005)

PCT

(10) International Publication Number WO 2005/002109 A2

(51) International Patent Classification7:

H04L

(21) International Application Number:

PCT/IL2004/000582

(22) International Filing Date:

30 June 2004 (30.06.2004)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data: 60/483,177

30 June 2003 (30.06.2003) U

- (71) Applicant (for all designated States except US): DEKOLINK WIRELESS LTD. [IL/IL]; 16 Bazel St., Qiryat-Arieh, 49510 Petah-Tikva (IL).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): MEIR, Amir [IL/IL]; 9 Hameirie, 69413 Tel Aviv (IL). BABER, Alexander [IL/IL]; 30 Tirza Street, 52364 Ramat Gan (IL). AVITAL, Yaniv [IL/IL]; 6/4 Almogan Street, 71700 Modiin (IL).
- (74) Agents: EITAN, PEARL, LATZER & CO-HEN-ZEDEK et al.; 7 Shenkar Street, 46725 Herzlia (IL).

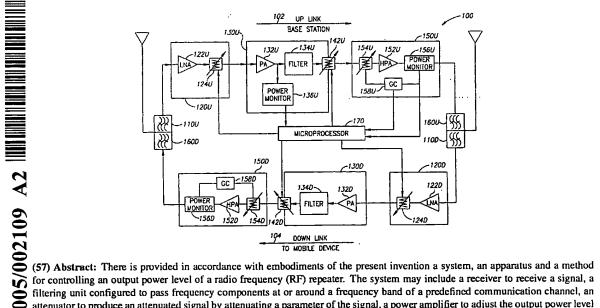
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

 without international search report and to be republished upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: METHOD FOR AUTOMATIC CONTROL OF RF OUTPUT LEVEL OF A REPEATER



(57) Abstract: There is provided in accordance with embodiments of the present invention a system, an apparatus and a method for controlling an output power level of a radio frequency (RF) repeater. The system may include a receiver to receive a signal, a filtering unit configured to pass frequency components at or around a frequency band of a predefined communication channel, an attenuator to produce an attenuated signal by attenuating a parameter of the signal, a power amplifier to adjust the output power level of repeater to a desired level by adjusting the gain of one or more components of the system, and a microprocessor to receive an input responsive to the output power level of the repeater and, in response to said input, to transfer control signals to the receiver and the attenuator. The method may include sampling traffic load characteristics during operation of a network and adjusting a gain of one or more components of the repeater based on the traffic load characteristics.